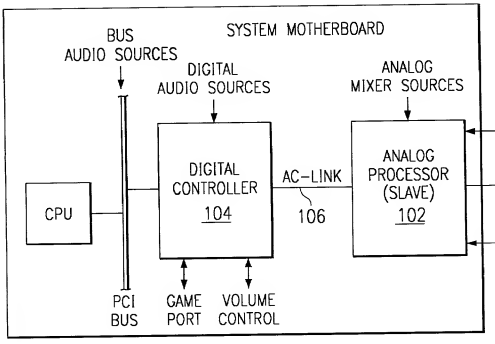

FIG. 1
(PRIOR ART)

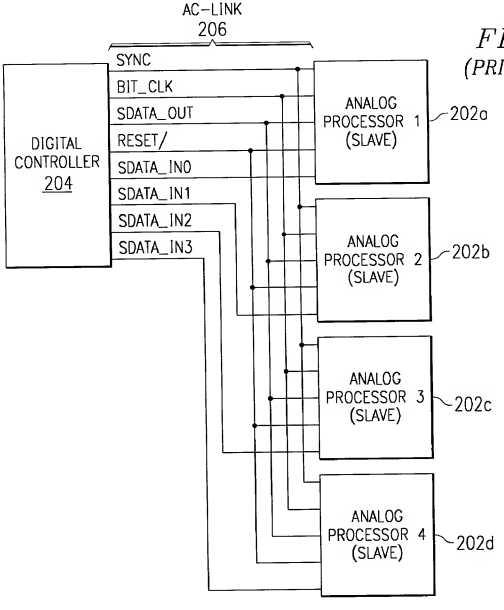

FIG. 2
(PRIOR ART)

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FIG. 3

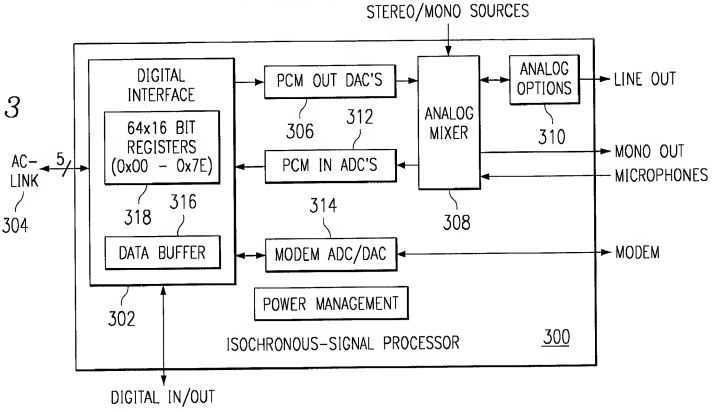
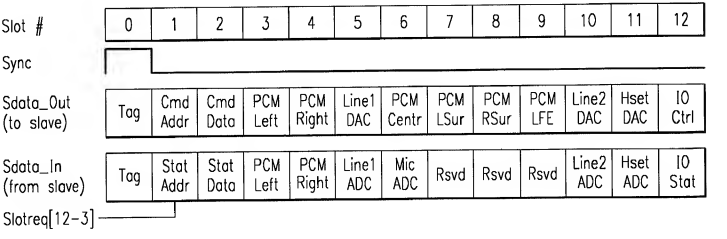


FIG. 4
(PRIOR ART)



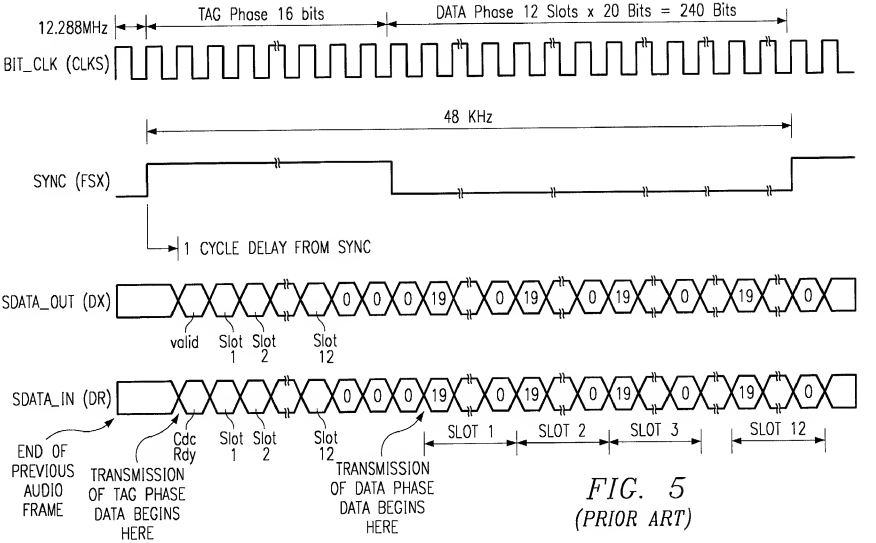


FIG. 5
(PRIOR ART)

FIG. 6

CONTROL REGISTER

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
RSVD						TASK		TDATA							
W, +0						W		W							

Bit	Name	Function
15–10	RSVD	Reserved (write zeros)
9–8	TASK	Multi–Word Task Flag TASK = 00 INITIATE_COMMAND TASK = 01 PROCESS_COMMAND TASK = 10 PREPARE_STATUS TASK = 11 reserved
7–0	TDATA	Multi–Word Task Data If TASK = 00 TDATA = word count of new multi–word command If TASK = 01 TDATA is unused and can be any value If TASK = 10 TDATA = type of status requested If TASK = 11 TDATA is unused and can be any value

FIG. 7

STATUS REGISTER

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
WSTAT						RSTAT		STATSIZE							
R, +0						R, +0		R							

Bit	Name	Function
15–12	WSTAT	Multi–Word Write Status WSTAT = 0000 READY_TO_RECEIVE WSTAT = 0001 RECEIPT_IN_PROGRESS WSTAT = 0010 RECEIVE_ERROR WSTAT = 0011 PROCESSING_COMMAND All other values are reserved
11–8	RSTAT	Multi–Word Read Status RSTAT = 0000 STATUS_READ_COMPLETE RSTAT = 0001 PREPARING_STATUS RSTAT = 0010 STATUS_REQUEST_ERROR RSTAT = 0011 STATUS_READY RSTAT = 0100 STATUS_READ_ERROR All other values are reserved
7–0	STATSIZE	Status size (word count) Contains count of words in prepared multi–word status. Only valid when RSTAT = STATUS_READY

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